

# United States Patent [19]

Burrows et al.

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## [54] STACKED ORGANIC LIGHT EMITTING **DEVICES**

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[56]

Int. Cl.<sup>6</sup> ...... H01J 1/62 [51]

**U.S. Cl.** ...... 313/506; 313/503; 313/509; 345/4; 345/79; 345/76

Field of Search ...... 313/504, 506, 313/509; 345/4, 79, 76; 427/64, 66

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**ABSTRACT** [57]

Arrangements for biasing the individual light emitting elements of a stacked organic light emitting device (SOLED). A circuit is provided for independently driving the individual OLEDs in a conventional SOLED having one electrode coupled to ground potential and one further electrode for each of the OLEDs in the stack. Additionally, new SOLED structures are described in which each OLED in the stack is provided with a ground reference. A SOLED combining upright and inverted OLEDs is also described.

## 64 Claims, 4 Drawing Sheets

